# Virginia Title V Operating Permit

Until such time as this permit is reopened and revised, modified, revoked, terminated or expires, the permittee is authorized to operate in accordance with the terms and conditions contained herein. This permit is issued under the authority of Title 10.1, Chapter 13, §10.1-1322 of the Air Pollution Control Law of Virginia. This permit is issued consistent with the Administrative Process Act, and 9 VAC 5-80-50 through 9 VAC 5-80-305 of the State Air Pollution Control Board Regulations for the Control and Abatement of Air Pollution of the Commonwealth of Virginia.

Authorization to operate a Stationary Source of Air Pollution as described in this permit is hereby granted to:

Permittee Name: BWX Technologies, Inc. – Mt. Athos Site

Mailing Address: P. O. Box 785

Lynchburg, VA 24505-0785

Facility Name: BWX Technologies, Inc. – Mt. Athos Site

DEQ Registration Number: 30260

Facility Location: Rt. 726, 1570 Mt. Athos Road, Campbell County, Virginia

AIRS Identification No.: 51-031-0006

<u>Permit Number</u> <u>Effective Date</u> <u>Expiration Date</u>

VA-30260 <u>September 16, 2002</u> <u>September 16, 2007</u>

Modification date: April 4, 2005

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Robert G. Burnley

Director, Department of Environmental Quality

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Signature Date

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# I. Facility Information

### Permittee

BWX Technologies, Inc. – Mt. Athos Site P. O. Box 785 Route 726, 1570 Mt. Athos Road Lynchburg, VA 24505-0785

## **Responsible Official**

Roger L. Coats
Manager, Environmental Protection

### **Facility**

BWX Technologies, Inc. - Mt. Athos Site Rt. 726 1570 Mt. Athos Road Campbell County

### **Contact Person**

David J. Owens Manager Environmental Engineering 434-522-6592

**AIRS Identification Number:** 51-031-0006

**Facility Description:** 3443 – The major activity at this facility is the production and assembly of unirradiated enriched uranium elements into nuclear reactors or fuel modules for power, propulsion, and research applications. This facility is primarily a metal fabricator, which involves the fabrication of metal components from stock metal through various machining process, welding, grinding, pickling, cleaning, and final assembly. Secondary to this is the recovery of uranium fuel, uranium downblending, and the research and development of uranium fuel manufacturing techniques. In addition, BWXT operates nuclear environmental testing laboratories (SIC 8734) for both research and development and for commercial purposes. Support facilities at this facility include a steam plant, a water treatment plant, and a wastewater treatment plant.

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# **II.** Emission Units

Equipment to be operated consists of:

# **A.** Significant Emissions Units

Emission Unit ID	Stack ID	Emission Unit Description	Size/Rated Capacity*	Pollution Control Device (PCD) Description	PCD ID	Pollutant Controlled	Applicable Permit Date
Fuel Burnii	ng Equip	ment					
EU-B-1	VS-B-	B&W Integral Furnace Co. Model/Type FM	26.5 MMBtu/hr	None	N/A	N/A	N/A
EU-B-2	VS-B-	B&W Integral Furnace Co. Model/Type FM	26.5 MMBtu/hr	None	N/A	N/A	N/A
EU-BB-2	VS- BB-2	The Bethlehem Corp. Model# E82A80LW-G/2	2.142 MMBtu/hr	None	N/A	N/A	N/A
EU-BC-1	VS- BC-1	American Standard, Model# M335	4.181 MMBtu/hr	None	N/A	N/A	N/A
Acid Bake -	off						
EU-10-10	VS-9- 1	Acid Bake-off	5.1 gal/hr	Mikro-Pol 315 scrubber	PC-9-1	NOx, HF, and HCl	9/12/1997
Dissolvers							
EU-14A- 17	VS- 14A-1	Uranium fuel dissolver	0.55 kg/hr	HEPA filter	PC-13-A- 2	NOx & HF	Exemption letter, dated 7/8/1999
EU-14A- 19	VS- 14A-1	Uranium metal dissolver column	4 kg/batch	Heil 739-P scrubber	PC-14A- 5, PC- 14A-1	NOx	N/A
EU-13A- 1, EU- 14A-1 to EU-14A-4	VS- 14A-1	Uranium recovery dissolvers	N/A	Heil 739-P scrubber	PC-14A-1	NOx & HF	N/A
EU-15A-1	VS- 14A-4	4 Uranium metal dissolvers	20 kg/batch (each)	Two-stage ejector/scrubber system	PC-14A-2 & PC- 14A-3	NOx	12/23/2004

Emission Unit ID	Stack ID	Emission Unit Description	Size/Rated Capacity*	Pollution Control Device (PCD) Description	PCD ID	Pollutant Controlled	Applicable Permit Date
Rotary Cal	ciner						
EU-13A-3	VS- 13A-2	Rotary calciner	24 kg/hr of general scrap	A cyclone, an electric afterburner, a wet venturi scrubber, and a mist eliminator system shall be used while processing general scrap.	PC-13A-6 to PC- 13A-10,	PM and visible emissions	June 18, 2002
Centorr Fin	nishing F	urnace					
EU-13A-2	VS- 14A-3	CRF 6" Centorr finishing furnace	0.12 lb/hr	HEPA Filter, Packed column scrubber	PC-13A- 3, PC- 13A-5	HCl	10/02/1995
Process							
EU-8A-1	VS- 7A-1 & VS- 7A-3	Dye Check Room	2.6 lb/hr	None	N/A	N/A	N/A
General Mo	etal Clear	ning					
EU- FGTV-1	Fugiti ve	General cleaning of metal components	N/A	N/A	N/A	N/A	N/A
Pickling Ur	nits						
EU-5A-1 to EU-5A- 6 & EU- 5A-8 to EU-5A-16	VS- 5A-1	Pickling tanks (Bay 5A)	N/A	Emission units EU- 5A-9 to EU-5A-16 controlled by a Ceilcote VCP-475 scrubber and a Heil7310-P scrubber in series. Scrubber effluent then merges with the remaining	PC-5A-1	NOx &HF	N/A

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Emission Unit ID	Stack ID	Emission Unit Description	Size/Rated Capacity*	Pollution Control Device (PCD) Description	PCD ID	Pollutant Controlled	Applicable Permit Date
				emissions units and enters a Heil 7310-P scrubber.			
EU-10-9	VS-9- 1	Pickling tank (Bay 10)	N/A	Mikro-Pol Model 315 scrubber	PC-9-1	NOx, HCl, & HF	N/A
Other							
EU-12A- 3A and EU-12A- 3B	VS- 14A-3	5" vertical tube furnaces by Thermcraft	3 liter of chlorine per minute	Packed column scrubber followed by a dry adsorber	PC-13A-5 and PC- 13A-12	Hydrogen chloride	09/23/02

<sup>\*</sup>The Size/Rated capacity is provided for informational purposes only, and is not an applicable requirement.

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# **B.** Insignificant Emission Units

The following emission units at the facility are identified in the application as insignificant emission units under 9 VAC 5-80-720:

Emission	Emission Unit	Citation	Pollutant(s) Emitted	Rated Capacity
Unit No.	Description	9 VAC	(9 VAC 5-80-720 B)	(9 VAC 5-80-720 C)
EU-1-1	Emergency Generator	5-80-720 C.4.b	NOx	503 hp
EU-1A-13	Emergency Generator	5-80-720-B.1.	NOx	685 hp
EU-2A-1	Emergency Generator	5-80-720 C.4.b	NOx	235 hp
EU-AA-1	Gas fired unit heater	5-80-720 C.2.a	NOx	0.105 MMBtu/hr
EU-AA-2	Gas fired unit heater	5-80-720 C.2.a	NOx	0.105 MMBtu/hr
EU-BA-1	#2 fuel oil/NG fired boiler	5-80-720 C.2.b.	NOx & SOx	0.67 MMBtu/hr
EU-BB-3	Gas fired roof top heater	5-80-720 C.2.a.	NOx	0.99 MMBtu/hr
EU-BC-2	NG fired kiln	5-80-720 C.2.a.	NOx	6.0 MMBtu/hr
EU-BC-6	Emergency generator	5-80-720 C.1.a.	NOx & SOx	230 Hp
EU-BD-4	Emergency generator	5-80-720 C.4.b.	NOx	219 Hp
EU-E-2	Gas fired heater	5-80-720 C.2.a.	NOx	0.05 MMBtu/hr
EU-E-3	Gas fired heater	5-80-720 C.2.a.	NOx	0.075 MMBtu/hr
EU-EO-1	Emergency generator	5-80-720 C.4.b.	NOx	73 Hp
EU-EQ-1	Oil-fired heater	5-80-720 C.2.b.	NOx	0.14 MMBtu/hr
EU-G-1	Gas fired heater	5-80-720 C.2.a.	NOx	0.03 MMBtu/hr
EU-LB-1	Gas fired heater	5-80-720 C.2.a.	NOx	0.03 MMBtu/hr
EU-LL-2	Gas fired clothes dryer	5-80-720 C.2.a.	NOx	0.12 MMBtu/hr
EU-LL-3	Gas fired laundry dryer	5-80-720 C.2.a.	NOx	0.12 MMBtu/hr
EU-LL-4	Gas fired laundry dryer	5-80-720 C.2.a.	NOx	0.12 MMBtu/hr
EU-PS-1	Gas fired unit heater	5-80-720 C.2.a.	NOx	0.05 MMBtu/hr
EU-S-1	Gas fired unit heater	5-80-720 C.2.a.	NOx	0.05 MMBtu/hr
EU-S-2	Gas fired unit heater	5-80-720 C.2.a.	NOx	0.05 MMBtu/hr
EU-S-3	Gas fired unit heater	5-80-720 C.2.a.	NOx	0.05 MMBtu/hr
EU-S-4	Gas fired unit heater	5-80-720 C.2.a.	NOx	0.05 MMBtu/hr
EU-S-5	Gas fired unit heater	5-80-720 C.2.a.	NOx	0.05 MMBtu/hr
EU-S-6	Gas fired unit heater	5-80-720 C.2.a.	NOx	0.05 MMBtu/hr
EU-S-7	Gas fired unit heater	5-80-720 C.2.a.	NOx	0.4 MMBtu/hr
EU-S-8	Gas fired unit heater	5-80-720 C.2.a.	NOx	0.05 MMBtu/hr
EU-S-9	Gas fired unit heater	5-80-720 C.2.a.	NOx	0.2 MMBtu/hr
EU-S-10	Gas fired unit heater	5-80-720 C.2.a.	NOx	0.03 MMBtu/hr

Emission	Emission Unit	Citation	Pollutant(s) Emitted	Rated Capacity
Unit No.	Description	9 VAC	(9 VAC 5-80-720 B)	(9 VAC 5-80-720 C)
EU-SR-1	Gas fired unit heater	5-80-720 C.2.a.	NOx	0.105 MMBtu/hr
EU-SR-2	Gas fired unit heater	5-80-720 C.2.a.	NOx	0.105 MMBtu/hr
EU-U-1	Gas fired unit heater	5-80-720 C.2.a.	NOx	0.3 MMBtu/hr
EU-U-2	Gas fired unit heater #1	5-80-720 C.2.a.	NOx	0.3 MMBtu/hr
EU-U-3	Gas fired unit heater #2	5-80-720 C.2.a.	NOx	0.3 MMBtu/hr
EU-U-4	Gas fired unit heater	5-80-720 C.2.a.	NOx	0.3 MMBtu/hr
CEU-U-5	Gas fired unit heater	5-80-720 C.2.a.	NOx	0.3 MMBtu/hr
CEU-U-5	Diesel fuel fired unit heater	5-80-720 C.2.b.	NOx, SOx	0.235 MMBtu/hr
EU-U1-4	Hammermill Boiler and water heater	5-80-720 C.2.a.	NOx	0.775 MMBtu/hr
EU-V1-1	Gas fired unit heater	5-80-720 C.2.a.	NOx	0.3 MMBtu/hr
EU-V1-2	Gas fired unit heater	5-80-720 C.2.a.	NOx	0.3 MMBtu/hr
EU-V2-1	Gas fired unit heater	5-80-720 C.2.a.	NOx	0.3 MMBtu/hr
EU-V2-2	Gas fired unit heater	5-80-720 C.2.a.	NOx	0.3 MMBtu/hr
EU-W-1	Gas fired unit heater	5-80-720 C.2.a.	NOx	0.105 MMBtu/hr
EU-W-2	Gas fired unit heater	5-80-720 C.2.a.	NOx	0.105 MMBtu/hr
EU-W-4	Two gas fired sludge dryers	5-80-720 C.2.a.	NOx & PM10	0.48 MMBtu/hr each
EU-W-5	Emergency Generator	5-80-720 C.4.b.	NOx	250 Hp
EU-WL-1	Gas fired unit heater	5-80-720 C.2.a.	NOx	0.03 MMBtu/hr
EU-WL-2	Gas fired heater	5-80-720 C.2.a.	NOx	0.03 MMBtu/hr
EU-WT-1	Emergency Fire (water) Pump	5-80-720 C.1.a.	NOx	310 Hp
EU-WT-2	Emergency Fire (water) Pump	5-80-720 C.1.a.	NOx	310 Hp
EU-WT-3	Gas fired heater	5-80-720 C.2.a.	NOx	0.05 MMBtu/hr
EU-14A-9	HF Storage	5-80-720 B.5.	HF	55 gallon drum storage
EU-1A-9	Pickle Tank	5-80-720 B.1.	NOx & HF	33.7 gals.
EU-5A-7	Pickle Tank	5-80-720 B.1.	NOx	274 gals.
EU-10-8	Pickle Tank	5-80-720 B.5	HCl, HF	850 gals.
EU-10-11	Acid Holding Tank	5-80-720 B.5.	HCl, HF	850 gals.
EU-10-12	Acid Rinse Tanks	5-80-720 B.5.	HCl, HF	1,700 gals.
EU-15-4	Pickle Line	5-80-720 B.1.	NOx	113 gals.
EU-15-5	Pickle Line	5-80-720 B.1. & B.5.	NOx	71.1 gals.
EU-15-6	Pickle Line	5-80-720 B.1. &	NOx & HF	113 gals.

Emission	Emission Unit	Citation	Pollutant(s) Emitted	Rated Capacity
Unit No.	Description	9 VAC	(9 VAC 5-80-720 B)	(9 VAC 5-80-720 C)
		B.5.		
EU-15-7	Etching Line	5-80-720 B.1.	NOx	6.3 gals.
EU-E-1	LLR Retention Tanks	5-80-720 B.1. & B.5.	NOx & HF	Two 15,000 gallons each
EU-EQ-2	LLR Equalization Tanks	5-80-720 B.1. & B.5.	NOx & HF	Two 30,000gallons each
EU-EQ-3	Pickle acid equalization tanks	5-80-720 B.1.	NOx & HF	Two 30,000 gallons each and two 15,00 gallons each
EU-TANK- 4	Used oil tank	5-80-720 B.2.	VOC	6,000 gallons
EU-TANK- 5	Used oil tank	5-80-720 B.2.	VOC	950 gallons
EU-TANK- 6	Copper nitrate tank	5-80-720 B.1.	NOx	5,000 gallons
EU-TANK- 24	Sulfuric acid tank	5-80-720 B.1.	PM10	3,000 gallons
EU-TANK- 25	Aluminum nitrate tank	5-80-720 B.1.	NOx	5,000 gallons
EU-TANK- 26	Aluminum nitrate overflow tank	5-80-720 B.1.	NOx	1,6000 gallons
EU-TANK- 63	Cleartex oil tank	5-80-720 B.2.	VOC	4,500 gallons
EU-TANK- 64	Cleartex oil tank	5-80-720 B.2.	VOC	4,5000 gallons
EU-TANK- 66	Nitric acid tank	5-80-720 B.1.	NOx	5,000 gallons
EU-TANK- 67	Nitric acid tank	5-80-720 B.1.	NOx	5,000 gallons
EU-TANK- 71	Convault gasoline storage	5-80-720 B.2.	VOC	1,000 gallons
EU-TANK- 72	Convault diesel fuel storage	5-80-720 B.2.	VOC	500 gallons
EU-TANK- 73	Convault diesel fuel storage	5-80-720 B.2.	VOC	500 gallons
EU-TANK- 74	Fuel oil storage	5-80-720 B.2.	VOC	150,000 gallons
EU-TANK- 77	Use Trim-sol storage tank	5-80-720 B.2.	VOC	5,000 gallons
EU-TANK- 78	Used oil/water tank	5-80-720 B.2.	VOC	5,000 gallons
EU-TANK- 79	Used oil/water tank	5-80-720 B.2.	VOC	1,000 gallons

Emission	Emission Unit	Citation	Pollutant(s) Emitted	Rated Capacity
Unit No.	Description	9 VAC	(9 VAC 5-80-720 B)	(9 VAC 5-80-720 C)
EU-TANK- 81	Fuel oil storage	5-80-720 B.2.	VOC	550 gallons
EU-TANK- 82	Gasoline storage	5-80-720 B.2.	VOC	275 gallons
EU-TANK- 88	Convault gasoline storage	5-80-720 B.2.	VOC	500 gallons
EU-TANK- 89	Diesel fuel storage tank	5-80-720 B.2.	VOC	250 gallons
EU-TANK- 90	Kerosene Tank	5-80-720 B.2.	VOC	275 gallons
EU-1A-10	Cleaning tanks	5-80-720 B.2.	VOC	Unknown
EU-3A-3	Evaporation Hood	5-80-720 B.2.	VOC	Unknown
EU-7A-1	Cleaning tables	5-80-720 B.2.	VOC	Unknown
EU-7A-2	Proceco Washer	5-80-720 A.24.	VOC, PM10	Unknown
EU-8-4	Proceco Washer	5-80-720 A.24.	VOC, PM10	Unknown
EU-13-16	Proceco Washer	5-80-720 A.24.	VOC, PM10	Unknown
EU-15-8	Proceco Washer	5-80-720 A.24.	VOC, PM10	Unknown
EU-1A-3 to EU-1A-8, EU-1A-12, EU-4A-1 to EU-4A-5, EU 12A-2, EU-13-1, EU-13-3 to EU-13-5, EU-14A-6, EU-14A-8, EU-15-1, EU-15-13, EU-15-13, EU-15-13, EU-15-18 to EU-15-21, EU-15-21, EU-1-10,	Welding machines	5-80-720 B.1.	PM10	Unknown
EU-U-13 EU-14A-15	Welding Hood	5-80-720 B.1.	PM10	Unknown
EU-14A-13	Assembly Fixture	5-80-720 B.1.	PM10	Unknown
EU-9-1, EU- 12-1, and	EB welder	5-80-720 B.1.	PM10	Unknown

Emission Unit No.	Emission Unit Description	Citation 9 VAC	Pollutant(s) Emitted (9 VAC 5-80-720 B)	Rated Capacity (9 VAC 5-80-720 C)
EU-13-5	Description	J VIIC	() VIIC 3-00-120 B)	() VIIC 3-00-120 C)
EU-10-1 to EU-10-7	Welding fixture/table	5-80-720 B.1.	PM10	Unknown
EU-12-2	Plasma welder	5-80-720 B.1.	PM10	Unknown
EU-12-3	Laser welder	5-80-720 B.1.	PM10	Unknown
EU-7A-8 to EU-7A-15	Welding boxes	5-80-720 B.1.	PM10	Unknown
EU-15-15 to EU-15-17	Arcmelter	5-80-720 B.1.	PM10	Unknown
EU-3-1, EU-3-2, EU-4-1 to EU-4-12, EU-6-1 to EU-6-12, EU-13-2, EU-14-1 to EU-14-4, EU-14-7, EU-15-14, EU-U-11 to EU-U-13	Grinder	5-80-720 B.1. & B.5.	PM, PM <sub>10</sub> , Chromium, Nickel, & Cobalt	Unknown
EU-7A-3 to EU-7A-6	Vapor blast	5-80-720 B.1.	PM10	Unknown
EU-8-1 to EU-8-3, EU- 12-4, EU- 13-15	Handwork station	5-80-720 B.1. & B.5.	PM10, Chromium, & Cobalt	Unknown
EU-10A-1	Copper polishing machine	5-80-720 B.1.	PM10	Unknown
EU-1A-1 & EU-1A-2	Dejacketing Machine	5-80-720 B.1.	PM10	Unknown
EU-3A-1	Electric Furnace	5-80-720 B.1.	VOC	Unknown
EU-3A-2	Electric Furnace	5-80-720 B.1.	VOC	Unknown
EU-8A-2, EU-8A-3, EU-12-5	Dye Check	5-80-720 B.1.	VOC	Unknown
EU-9A-1	Soil Vapor Extraction	5-80-720 B.1.	Trichloroethylene	Unknown
EU-13A-4	6" Sintering Furnace	5-80-720 B.1.	NOx	Unknown
EU-13A-5	Calciner	5-80-720 B.1.	PM10	Unknown
EU-13A-6	1.6" Finishing Furnace	5-80-720 B.5.	HCl	Unknown
EU-13A-7	Buffer Furnace	5-80-720 B.1.	PM10	Unknown
EU-13A-9	Chemical Processing	5-80-720 B.5.	Trichloroethylene &	Unknown

Emission Unit No.	Emission Unit Description	Citation 9 VAC	Pollutant(s) Emitted (9 VAC 5-80-720 B)	Rated Capacity (9 VAC 5-80-720 C)
GIAV I (O	Hoods	<i>y</i>	VOC	
EU-14A-10, EU-14A-12	Steam Heated Drum Dryer	5-80-720 B.1.	PM10	Unknown
EU-14A-11	Chemical Conversion Hoods	5-80-720 B.1.	PM10 and NOx	Unknown
EU-14A-13	Jaw Crusher	5-80-720 B.1. & B.5.	PM10	14.2 lb/hr
EU-14A-14	Pump Repair Hood	5-80-720 B.1.	PM10	Unknown
EU-14A-16	Element Chopper	5-80-720 B.1.	PM10	Unknown
EU-14A-18	Microwave – Fuel Processing	5-80-720 B.1.	NOx	Unknown
EU-BB-4	Lab Hoods (Rooms 600, 603, & 604)	5-80-720 B.2.	VOC	Unknown
EU-BB-5	Building B Labs	5-80-720 B.2.	VOC	Unknown
EU-BC-3	Electric Dryer	5-80-720 B.2. & B.5.	VOC	Unknown
EU-BC-4	Chemical Hood	5-80-720 B.2. & B.5.	VOC	Unknown
EU-BC-5	Winding Hood	5-80-720 B.2. & B.5.	VOC	Unknown
EU-BC-7	Lab Hood	5-80-720 B.2. & B.5.	VOC	Unknown
EU-BC-8	Electric Dryer	5-80-720 B.2. & B.5.	VOC	Unknown
EU-BD-1	Lab Hood – Room 446	5-80-720 B.2. & B.5.	VOC	Unknown
EU-BD-2	Lab Hoods – Room 434	5-80-720 B.2. & B.5.	VOC	Unknown
EU-BD-3	Lab Hoods – Room 432	5-80-720 B.2. & B.5.	VOC	Unknown
EU-FGTV-2	General Spray Can Painting	5-80-720 B.2.	VOC	Unknown
EU-L-1	Oil, Solvent and Raw Material Storage	5-80-720 B.2.	VOC	Unknown
EU-VEP-1	VEP System Scrubber	5-80-720 B.5.	Trichloroethylene	Unknown
EU-VEP-2	VEP System Air/Water Separator	5-80-720 B.5.	Trichloroethylene	Unknown
EU-WL-3	Chlorine Room Vent	5-80-720 B.5.	Chlorine	Unknown
EU-BB-1	Gas fired Catenary Kiln	5-80-720 C.2.a.	NOx	1.5 MMBtu/hr

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These emission units are presumed to be in compliance with all requirements of the federal Clean Air Act as may apply. Based on this presumption, no monitoring, recordkeeping, or reporting shall be required for these emission units in accordance with 9 VAC 5-80-110.

#### Ш. Boilers –EU-B-1, EU-B-2, EU-BB-2, and EU-BC-1

Emission	Regulated	Limitation/Standard	Applicable Requirement
Unit ID	Pollutant		
EU-B-1	PM	10.0 lb/hr	9 VAC 5- 40-900 A
EU-B-1	$SO_2$	70.0 lb/hr	9 VAC 5- 40-930
EU-B-2	PM	10.0 lb/hr	9 VAC 5- 40-900 A
EU-B-2	$SO_2$	70.0 lb/hr	9 VAC 5- 40-930
EU-BB-2	PM	0.8 lb/hr	9 VAC 5- 40-900 A
EU-BB-2	$SO_2$	5.7 lb/hr	9 VAC 5- 40-930
EU-BC-1	PM	1.6 lb/hr	9 VAC 5- 40-900 A
EU-BC-1	$SO_2$	11.0 lb/hr	9 VAC 5- 40-930

Note: PM=PM<sub>10</sub>

# A. Limitations

- 1. The approved fuels for the four boilers are natural gas and distillate oil. Distillate oil is defined as fuel oil that meets the specifications for fuel oil numbers 1 or 2 under the American Society for Testing and Materials, ASTM D396 "Standard Specification for Fuel Oils." A change in the fuels may require a permit to modify and operate. (9 VAC 5-80-110)
- 2. Visible Emissions from each of the boiler stacks shall not exceed 20 percent opacity except during one six-minute period in any one hour in which visible emissions shall not exceed 60 percent opacity as determined by EPA Method 9 (reference 40 CFR 60 Appendix A).

(9 VAC 5-40-80 and 9 VAC 5-80-110)

3. Boiler emissions shall be controlled by proper operation and maintenance. Boiler operators shall be trained in the proper operation of all such equipment. Training shall consist of a review and familiarization of the manufacturer's operating instructions, at minimum.

(9 VAC 5-80-110)

# B. Recordkeeping

1. The permittee shall maintain records of all emission data and operating parameters necessary to demonstrate compliance with this permit. The content and format of such records shall be arranged with the South Central Regional Office. These records shall include, but are not limited to:

a. The annual throughput of natural gas (in million cubic feet) and distillate oil (in 1000 gallons) and the F-factor, pollutant-specific emission factors, and emission equations for the B&W, Bethlehem, and American Standard boilers. The annual throughput shall be calculated on a calendar year basis.

- b. A statement that the oil complies with the American Society for Testing and Materials specifications for fuel oil numbers 1 or 2.
- c. Results of the weekly visual observation of the boiler stacks as specified in Condition III.C. of this section, along with any corrective actions.

These records shall be available on site for inspection by the DEQ and shall be current for the most recent five (5) years. (9 VAC 5-80-110)

## C. Periodic Monitoring

At least one time per week an observation of the presence of visible emissions from the B&W Integral Furnace, Bethlehem Corp., and American Standard boiler stacks shall be made. The presence of visible emissions shall require the permittee to:

- 1. take timely corrective action such that the boiler, with visible emissions, resumes operation with no visible emissions, or,
- 2. conduct a visible emission evaluation (VEE) on the boiler, with visible emissions, in accordance with EPA Method 9 (reference 40 CFR 60, Appendix A) for a minimum of six (6) minutes, to assure visible emissions from the stack are 20 percent opacity or less. If any of the observations exceed the opacity limitation of 20%, the observation period shall continue until a total of sixty (60) minutes of observation have been completed. Timely corrective action shall be taken, if necessary, such that the boiler resumes operation within the 20% opacity limit.
- 3. If visible emissions inspections conducted during twelve (12) consecutive weeks show no visible emissions for a particular stack, the permittee may reduce the monitoring frequency to once per month for that stack. Anytime the monthly visible emissions inspections show visible emissions, or when requested by DEQ, the monitoring frequency shall be increased to once per week for that stack.

The permittee shall maintain a boiler stack observation log for each boiler to demonstrate compliance. The logs shall include the date and time of the observations, whether or not there were visible emissions, the results of all VEEs, and any necessary corrective action. If the boiler(s) has not been operated for any period during the week, it shall be noted in the boiler log book and that a visual observation was not required (9 VAC 5-80-110 E)

# IV. Bakeoff/replenishing tank - EU-10-10

### A. Limitations

- 1. HF and HCl emissions from the bakeoff/replenishing tank shall be controlled by a scrubber. The scrubber shall be provided with adequate access for inspection. The scrubber shall be equipped with a flow meter and a device to continuously measure the differential pressure through the scrubber (9 VAC 5-80-110 and Condition 3 of 9/12/97 Permit)
- 2. The annual evaporation of spent acid solution shall not exceed 44,300 gallons, calculated monthly as the sum of each consecutive twelve (12) month period. (9 VAC 5-80-110 and Condition 5 of 9/12/97 Permit)
- 3. If, for any reason, the permitted facility or related air pollution control equipment fails or malfunctions and may cause excess emissions for more than one hour, the owner shall notify the South Central Regional Office within four (4) business hours of the occurrence. The portion of the facility which is subject to the provision of Rule 4-3 (9 VAC 5-40-160 et seq.) or 5-3 (9 VAC 5-50-160 et seq.) (toxics) shall shut down immediately upon request of the DEQ. In addition, the owner shall provide a written statement, within 14 days, explaining the problem, corrective action taken, and the estimated duration of the breakdown/shut down.

  (9 VAC 5-80-110 and Condition 10 of 9/12/97 Permit)
- 4. In order to minimize the duration and frequency of excess emissions due to malfunctions of process equipment or air pollution control equipment, the permittee shall:
  - a. Develop a maintenance schedule and maintain records of all scheduled and non-scheduled maintenance. These records shall be maintained on site for a period of five (5) years and shall be made available to DEQ personnel upon request.
  - b. Maintain an inventory of spare parts that are needed to minimize durations of air pollution control equipment breakdowns.

(9 VAC 5-80-110 and Condition 11 of 9/12/97 Permit)

### B. Recordkeeping

The permittee shall maintain records of all emission data and operating parameters necessary to demonstrate compliance with this permit. The content and format of such records shall be arranged with the South Central Regional Office. These records shall include, but are not limited to the yearly evaporation of spent acid solution (in gallons), calculated monthly as the sum of each consecutive twelve (12) month period. These records shall be available on site for inspection by the DEQ and shall be current for the most recent five (5) years.

(9 VAC 5-80-110 and Condition 7 of 9/12/97 Permit)

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# C. Testing

The permitted facility shall be constructed so as to allow for emissions testing at any time using appropriate methods. Upon request from the Department, test ports shall be provided at the appropriate locations.

(9 VAC 5-50-30, 9 VAC 5-80-110, and Condition 4 of 9/12/97 Permit)

# V. Uranium Metal Dissolvers EU-15A-1

### A. Limitations

- 1. Nitrogen oxide emissions from the dissolvers (EU-15A-1) shall be controlled by a two-stage ejector/scrubber system. Nitric acid shall be used in the ejector stage for uranium removal and sodium hydroxide in the scrubber stage for nitrogen oxide removal. The pH shall be controlled to less than 7 in the ejector for uranium removal. The scrubber pH shall be controlled within a range of 10 to 14. The ejector/scrubber system shall be provided with adequate access for inspection and shall be in operation when the dissolving process is operating.
  - (9 VAC 5-80-110 and Condition 3 of 12/23/04 Permit)
- 2. Visible emissions from the uranium dissolvers stack (VS 14A-1) shall not exceed 20 percent opacity except during one six-minute period in any one hour in which visible emissions shall not exceed 30 percent opacity as determined by the EPA Method 9 (reference 40 CFR 60, Appendix A). This condition applies at all times except during startup, shutdown, and malfunction.
  - (9 VAC 5-80-110 and Condition 7 of 12/23/04 Permit)
- 3. The permittee shall take the following measures in order to minimize the duration and frequency of excess emissions, with respect to air pollution control equipment and process equipment which affect such emissions:
  - a. Develop a maintenance schedule and maintain records of all scheduled and non-scheduled maintenance.
  - b. Maintain an inventory of spare parts.
  - c. Have available written operating procedures for equipment. These procedures shall be based on the manufacturer's recommendations, at a minimum
  - d. Train operators in the proper operation of all such equipment and familiarize the operators with the written operating procedures. The permittee shall maintain records of the training provided including the names of trainees, the date of training and the nature of the training.

Records of maintenance and training shall be maintained on site for a period of five years and shall be made available to DEQ personnel upon request. (9 VAC 5-80-110 and Condition 13 of 12/23/04 Permit)

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4. Combined emissions from the operation of the four uranium dissolvers shall not exceed the limits specified below:

30 tons/yr Nitrogen Oxides 13.6 lbs/hr (as NO<sub>2</sub>)

These emissions are derived from the estimated overall emission contribution from operating limits. Exceedance of the operating limits shall be considered credible evidence of the exceedance of emission limits. Compliance with these emission limits may be determined as stated in Condition numbers V.A.1 and V.C.

Annual emissions shall be calculated monthly as the sum of each consecutive 12 month period.

(9 VAC 5-80-110, 9 VAC 5-50-260 and Condition 6 of 12/23/04 Permit)

# **B.** Monitoring

- 1. The ejector/scrubber system shall be equipped with devices to continuously measure the ejector/scrubber liquid flow rate and the differential pressure drop across the ejector/scrubber and the ejector/scrubber liquid pH. Each monitoring device shall be installed, maintained, calibrated and operated in accordance with approved procedures which shall include, as a minimum, the manufacturer's written requirements or recommendations. Each monitoring device shall be provided with adequate access for inspection and shall be in operation when the dissolving process
  - (9 VAC 5-80-110 and Condition 4 of 12/23/04 Permit)
- 2. Each pressure drop meter used to continuously measure pressure drop, each liquid flow rate meter, and liquid pH meter shall be observed by the permittee with a frequency of not less than once per day to ensure good performance of the ejector/scrubber system. The permittee shall keep a log of the observations from each meter.
  - (9 VAC 5-80-110 and Condition 5 of 12/23/04 Permit)
- 3. At least one time per week an observation of the presence of visible emissions from the uranium metal dissolvers (EU-15A-1) stack (VS-14A-4) shall be made. The presence of visible emissions shall require the permittee to:
  - a. take timely corrective action such that the uranium metal dissolvers (EU-15A-1) resume operation with no visible emissions, or,

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b. conduct a visible emission evaluation (VEE) on the uranium metal dissolvers (EU-15A-1) stack, (VS-14A-4) in accordance with EPA Method 9 (reference 40 CFR 60, Appendix A) for a minimum of six (6) minutes, to assure visible emissions from the uranium metal dissolvers (EU-15A-1) are 20 percent opacity or less. If any of the observations exceed the opacity limitation of 20%, the observation period shall continue until a total of sixty (60) minutes of observation have been completed. Timely corrective action shall be taken, if necessary, such that the uranium metal dissolvers (EU-15A-1) resume operation within the 20% opacity limit.

c. If visible emissions inspections conducted during twelve (12) consecutive weeks show no visible emissions for a particular stack, the permittee may reduce the monitoring frequency to once per month for that stack. Anytime the monthly visible emissions inspections show visible emissions, or when requested by DEQ, the monitoring frequency shall be increased to once per week for that stack.

The permittee shall maintain a stack observation log for the stack to demonstrate compliance. The logs shall include the date and time of the observations, the name of the observer, whether or not there were visible emissions, the results of all VEEs, and any necessary corrective action. If the uranium metal dissolvers (EU-15A-1) have not been operated during the week, it shall be noted in the log book and that a visual observation was not required.

(9 VAC 5-80-110 E)

# C. Recordkeeping

The permittee shall maintain records of all emission data and operating parameters necessary to demonstrate compliance with this permit. The content and format of such records shall be arranged with the South Central Regional Office. These records shall include, but are not limited to:

- 1. Annual throughput of uranium, calculated monthly as the sum of each consecutive twelve (12) month period.
- 2. The daily pH of the uranium ejector and scrubber liquids.
- 3. Annual nitrogen oxide emissions, calculated monthly as the sum of each consecutive 12 month period using a calculation method approved by the South Central Regional Office.
- 4. Operation and control device monitoring records for the scrubber system.
- 5. Scheduled and unscheduled maintenance, and operator training.
- 6. Results of the weekly visual observation of the uranium metal dissolvers (EU-15A-1) stack as specified in Condition V.B.4. of this section, along with any corrective actions.

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These records shall be available on site for inspection by the DEQ and shall be current for the most recent five (5) years.

(9 VAC 5-80-110 and Condition 8 of 12/23/04 Permit)

# **D.** Testing

The permitted facility shall be constructed so as to allow for emissions testing and monitoring upon reasonable notice at any time, using appropriate methods. Test ports shall be provided when requested at the appropriate locations.

(9 VAC 5-50-30, 9 VAC 5-80-110, and Condition 9 of 12/23/04 Permit)

# VI. Rotary Calciner – EU-13A-3

### A. Limitations

- 1. Particulate emissions from the calciner (EU-13A-3) shall be controlled by a cyclone, an electric afterburner, a fixed throat venturi scrubber, and a mist eliminator system. The venturi scrubber shall be provided with adequate access for inspection. (9 VAC 5-80-110 and Condition 3 of 6/18/2002 Permit)
- 2. The wet venturi scrubber shall be equipped with devices to continuously measure pressure drop. Each monitoring device shall be installed, maintained, calibrated and operated in accordance with approved procedures which shall include, as a minimum, the manufacturer's written requirements or recommendations. Each monitoring device shall be provided with adequate access for inspection and shall be in operation when the calciner is operating.
  - (9 VAC 5-80-110 and Condition 4 of 6/18/2002 Permit)
- 3. The calciner (EU-13A-3) shall process no more than 232 tons per year of general scrap, calculated monthly as the sum of each consecutive twelve (12) month period. (9 VAC 5-80-110 and Condition 5 of 6/18/2002 Permit)
- 4. Visible emissions from the calciner stack (VS-13A-2) shall not exceed 5 percent opacity as determined by EPA Method 9 (reference 40 CFR 60, Appendix A). This condition applies at all times except during startup, shutdown and malfunction. (9 VAC 5-80-110 and Condition 6 of 6/18//2002 Permit)
- 5. The permittee shall take the following measures in order to minimize the duration and frequency of excess emissions, with respect to air pollution control equipment, and process equipment which affect such emissions:
  - a. Develop a maintenance schedule and maintain records of all scheduled and non-scheduled maintenance.
  - b. Maintain an inventory of spare parts.

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c. Have available written operating procedures for equipment. These procedures shall be based on the manufacturer's recommendations, at a minimum.

d. Train operators in the proper operation of all such equipment and familiarize the operators with the written operating procedures. The permittee shall maintain records of the training provided including the names of trainees, the date of training and the nature of the training.

Records of maintenance and training shall be maintained on site for a period of five years and shall be made available to DEQ personnel upon request. (9 VAC 5-80-110 and Condition 12 of 6/18/2002 Permit)

# B. Recordkeeping

The permittee shall maintain records of all emission data and operating parameters necessary to demonstrate compliance with this permit. The content and format of such records shall be arranged with the South Central Regional Office. These records shall include, but are not limited to:

- 1. Annual throughput of general scrap material, calculated monthly as the sum of each consecutive twelve (12) month period.
- 2. Results of the weekly visual observation of the rotary calciner (EU-13A-3) stack as specified in Condition VI.D. of this section, along with any corrective actions.

These records shall be available on site for inspection by the DEQ and shall be current for the most recent five (5) years.

(9 VAC 5-80-110 and Condition 7 of 6/18/2002 Permit)

# C. Testing

The permitted facility shall be constructed so as to allow for emissions testing at any time using appropriate methods. Test ports shall be provided at the appropriate locations. (9 VAC 5-80-110 and Condition 8 of 6/18/2002 Permit)

# **D.** Periodic Monitoring

At least one time per week an observation of the presence of visible emissions from the rotary calciner stack shall be made. The presence of visible emissions shall require the permittee to:

1. take timely corrective action such that the rotary calciner (EU-13A-3) resumes operation with no visible emissions, or,

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2. conduct a visible emission evaluation (VEE) on the rotary calciner stack, in accordance with EPA Method 9 (reference 40 CFR 60, Appendix A) for a minimum of six (6) minutes, to assure visible emissions from the rotary calciner stack are 5 percent opacity or less. If any of the observations exceed the opacity limitation of 5 per cent, the observation period shall continue until a total of sixty (60) minutes of observation have been completed. Timely corrective action shall be taken, if necessary, such that the rotary calciner (EU-13A-3) resumes operation within the 5% opacity limit.

3. If visible emissions inspections conducted during twelve (12) consecutive weeks show no visible emissions for a particular stack, the permittee may reduce the monitoring frequency to once per month for that stack. Anytime the monthly visible emissions inspections show visible emissions, or when requested by DEQ, the monitoring frequency shall be increased to once per week for that stack.

The permittee shall maintain a stack observation log for the stack to demonstrate compliance. The logs shall include the date and time of the observations, the name of the observer, whether or not there were visible emissions, the results of all VEEs, and any necessary corrective action. If the rotary calciner (EU-13A-3) has not been operated during the week, it shall be noted in the log book and that a visual observation was not required.

(9 VAC 5-80-110 E)

### E. Reporting

The permittee shall furnish notification to the South Central Regional Office of malfunctions of the affected facility or related air pollution control equipment that may cause excess emissions for more than one hour, by facsimile transmission, telephone or telegraph. Such notification shall be made as soon as practicable but not later than four daytime business hours of the malfunction. The permittee shall provide a written statement giving all pertinent facts, including the estimated duration of the breakdown, within 14 days of the occurrence. When the condition causing the failure or malfunction has been corrected and the equipment is again in operation, the permittee shall notify South Central Regional Office in writing.

(9 VAC 5-80-110 and Condition 10 of 6/18/2002 Permit)

# VII. CRF 6" Centorr Finishing Furnace – EU-13A-2

### A. Limitations

1. Hydrogen Chloride emissions from the furnace (EU-13A-2) shall be controlled by a scrubber. The scrubber shall be provided with adequate access for inspection and shall be equipped with a flow meter and a device to continuously measure the differential pressure through the scrubber.

(9 VAC 5-80-110 and Condition 3 of 10/2/95 Permit)

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2. The furnace (EU-13A-2) shall process no more than 480 kilograms of uranium per year, calculated monthly as the sum of each consecutive twelve (12) month period. (9 VAC 5-80-110 and Condition 5 of 10/2/95 Permit)

- 3. Visible emissions from the furnace (EU-13A-2) shall not exceed 5 percent opacity as determined by EPA Method 9 (reference 40 CFR 60, Appendix A). This condition applies at all times except during startup, shutdown and malfunction. (9 VAC 5-80-110 and Condition 6 of 10/2/95 Permit)
- 4. In order to minimize the duration and frequency of excess emissions due to malfunctions of process equipment or air pollution control equipment, the permittee shall:
  - a. Develop a maintenance schedule and maintain records of all scheduled and non-scheduled maintenance. These records shall be maintained on site for a period of five (5) years and shall be made available to DEQ personnel upon request
  - b. Maintain an inventory of spare parts that are needed to minimize durations of air pollution control equipment breakdowns
  - (9 VAC 5-80-110 and Condition 12 of 10/2/95 Permit)
- 5. The permittee shall have available written operating procedures for the related air pollution control equipment. Operators shall be trained in the proper operation of all such equipment and shall be familiar with the written operating procedures. These procedures shall be based on the manufacturer's recommendations, at minimum. The permittee shall maintain records of training provided including names of trainees, date of training and nature of training.
  - (9 VAC 5-80-110 and Condition 13 of 10/2/95 Permit)

# B. Recordkeeping

The permittee shall maintain records of all emission data and operating parameters necessary to demonstrate compliance with this permit. The content and format of such records shall be arranged with the South Central Regional Office. These records shall include, but are not limited to:

- 1. the yearly throughput of uranium, in kilograms, through the 6" Centorr Finishing Furnace (EU-13A-2), calculated as the sum of each consecutive 12 month period.
- 2. Results of the weekly visual observation of the Centorr finishing furnace (EU-13A-2) as specified in Condition VII.D. of this section, along with any corrective actions.

These records shall be available on site for inspection by the DEQ and shall be current for the most recent five (5) years.

(9 VAC 5-80-110 and Condition 8 of 10/2/95 Permit)

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# C. Testing

The permitted facility shall be constructed so as to allow for emissions testing at any time using appropriate methods. Upon request from the Department, test ports shall be provided at the appropriate locations.

(9 VAC 5-50-30, 9 VAC 5-80-110, and Condition 4 of 10/2/95 Permit)

# **D.** Periodic Monitoring

- 1. The flow meter and the pressure drop meter used to continuously measure pressure drop shall be observed by the permittee with a frequency of not less than once per day to ensure good performance of the scrubber. The permittee shall keep a log of the observations from the flow meter and the pressure drop meter. (9 VAC 5-80-110)
- 2. At least one time per week an observation of the presence of visible emissions from the 6" Centorr Finishing Furnace (EU-13A-2) stack shall be made. The presence of visible emissions shall require the permittee to:
  - a. take timely corrective action such that the 6" Centorr Finishing Furnace (EU-13A-2) resume operation with no visible emissions, or,
  - b. conduct a visible emission evaluation (VEE) on the 6" Centorr Finishing Furnace (EU-13A-2) stack, in accordance with EPA Method 9 (reference 40 CFR 60, Appendix A) for a minimum of six (6) minutes, to assure visible emissions from the 6" Centorr Finishing Furnace (EU-13A-2) are 5 percent opacity or less. If any of the observations exceed the opacity limitation of 5%, the observation period shall continue until a total of sixty (60) minutes of observation have been completed. Timely corrective action shall be taken, if necessary, such that the 6" Centorr Finishing Furnace (EU-13A-2) resume operation within the 5% opacity limit.
  - c. If visible emissions inspections conducted during twelve (12) consecutive weeks show no visible emissions for a particular stack, the permittee may reduce the monitoring frequency to once per month for that stack. Anytime the monthly visible emissions inspections show visible emissions, or when requested by DEQ, the monitoring frequency shall be increased to once per week for that stack.

The permittee shall maintain a stack observation log for the stack to demonstrate compliance. The logs shall include the date and time of the observations, the name of the observer, whether or not there were visible emissions, the results of all VEEs, and any necessary corrective action. If the 6" Centorr Finishing Furnace (EU-13A-2) has not been operated during the week, it shall be noted in the log book and that a visual observation was not required.

(9 VAC 5-80-110 E)

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# E. Reporting

If, for any reason, the permitted facility or related air pollution control equipment fails or malfunctions and may cause excess emissions for more than one hour, the owner shall notify the South Central Regional Office within four (4) daytime business hours of the occurrence. The portion of the facility which is subject to the provision of Rule 4-3 or 5-3 (toxics) shall shut down immediately upon request of the DEQ. In addition, the owner shall provide a written statement, within 14 days, explaining the problem, corrective action taken, and the estimated duration of the breakdown/shut down. (9 VAC 5-80-110 and Condition 11 of 10/02/1995 Permit)

# VIII. Dye Check Room – EU-8A-1

# A. Recordkeeping

The permittee shall maintain records of all emission data and operating parameters necessary to demonstrate compliance with this permit. The content and format of such records shall be arranged with the South Central Regional Office. These records shall include, but are not limited to the annual throughput of volatile organic compound emissions. The permittee will keep records of the equations, certified product data sheets or equivalent references, emission equations, and all supporting documentation. These records shall be available on site for inspection by the DEQ and shall be current for the most recent five (5) years.

9 VAC 5-80-110)

# IX. General Cleaning of Metal Components – EU-FUGTV-1

# A. Recordkeeping

The permittee shall maintain records of all emission data and operating parameters necessary to demonstrate compliance with this permit. The content and format of such records shall be arranged with the South Central Regional Office. These records shall include, but are not limited to the yearly amount of cleaning materials used sufficient to calculate volatile organic compound emissions on a calendar year basis. The permittee will keep records of the equations, certified product data sheets or equivalent references, emission equations, and all supporting documentation.

These records shall be available on site for inspection by the DEQ and shall be current for the most recent five (5) years.

(9 VAC 5-80-110)

# X. Pickling Tanks – EU-5A-1 to EU-5A-6 and EU-5A-8 to EU-5A-16

### A. Limitations

Visible emissions from the Bay 5A scrubber exhaust stack (VS-5A-1) shall not exceed 20% opacity except during one six-minute period in any one hour in which visible emissions shall not exceed 60% opacity. (9 VAC 5-40-80 and 9 VAC 5-80-110)

# B. Recordkeeping

The permittee shall maintain records of all emission data and operating parameters necessary to demonstrate compliance with this permit. The content and format of such records shall be arranged with the South Central Regional Office. These records shall include, but are not limited to:

- 1. Annual amount of material processed sufficient to calculate nitrogen dioxide and HF emissions on a calendar year basis. The permittee will keep records of the equations, certified product data sheets or equivalent references, emission equations, and all supporting documentation.
- 2. Results of the weekly visual observation of the Bay 5A scrubber exhaust stack (VS-4-1)as specified in Condition X.C. of this section, along with any corrective actions.

These records shall be available on site for inspection by the DEQ and shall be current for the most recent five (5) years. (9 VAC 5-80-110)

### C. Periodic Monitoring

At least one time per week an observation of the presence of visible emissions from Bay 5A stack (VS-4-1) shall be made. The presence of visible emissions shall require the permittee to:

- 1. take timely corrective action such that the pickling tanks, with visible emissions, resumes operation with no visible emissions, or,
- 2. conduct a visible emission evaluation (VEE) on Bay 5A stack, with visible emissions, in accordance with EPA Method 9 (reference 40 CFR 60, Appendix A) for a minimum of six (6) minutes, to assure visible emissions from the are 20 percent opacity or less. If any of the observations exceed the opacity limitation of 20%, the observation period shall continue until a total of sixty (60) minutes of observation have been completed. Timely corrective action shall be taken, if necessary, such that the pickle tanks resume operation within the 20% opacity limit.

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3. If visible emissions inspections conducted during twelve (12) consecutive weeks show no visible emissions for a particular stack, the permittee may reduce the monitoring frequency to once per month for that stack. Anytime the monthly visible emissions inspections show visible emissions, or when requested by DEQ, the monitoring frequency shall be increased to once per week for that stack.

The permittee shall maintain a stack observation log for the stack to demonstrate compliance. The logs shall include the date and time of the observations, the name of the observer, whether or not there were visible emissions, the results of all VEEs, and any necessary corrective action. If the pickling process has not been operated during the week, it shall be noted in the log book and that a visual observation was not required. (9 VAC 5-80-110 E)

### XI. Pickling Tank – EU-10-9

### A. Limitations

Visible emissions from the Bay 10 pickling process (EU-10-9) shall not exceed 20% opacity except during one six-minute period in any one hour in which visible emissions shall not exceed 60% opacity.

(9 VAC 5-40-80 and 9 VAC 5-80-110)

# B. Recordkeeping

The permittee shall maintain records of all emission data and operating parameters necessary to demonstrate compliance with this permit. The content and format of such records shall be arranged with the South Central Regional Office. These records shall include, but are not limited to:

- 1. the annual amount of material processed sufficient to calculate nitrogen dioxide and HF emissions on a calendar year basis. The permittee will keep records of the equations, certified product data sheets or equivalent references, emission equations, and all supporting documentation.
- 2. Results of the weekly visual observation of the pickling tank stack (VS-9-1) as specified in Condition XI.C. of this section, along with any corrective actions.

These records shall be available on site for inspection by the DEQ and shall be current for the most recent five (5) years. (9 VAC 5-80-110)

### C. Periodic Monitoring

At least one time per week an observation of the presence of visible emissions from the pickle exhaust stack (VS-9-1) shall be made. The presence of visible emissions shall require the permittee to:

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1. take timely corrective action such that the pickling tank, with visible emissions, resumes operation with no visible emissions, or,

- 2. conduct a visible emission evaluation (VEE) on the Bay 10 pickle stack (VS-9-1), with visible emissions, in accordance with EPA Method 9 (reference 40 CFR 60, Appendix A) for a minimum of six (6) minutes, to assure visible emissions from the are 20 percent opacity or less. If any of the observations exceed the opacity limitation of 20%, the observation period shall continue until a total of sixty (60) minutes of observation have been completed. Timely corrective action shall be taken, if necessary, such that the Bay 10 pickling process (EU-10-9) resumes operation within the 20% opacity limit.
- 3. If visible emissions inspections conducted during twelve (12) consecutive weeks show no visible emissions for a particular stack, the permittee may reduce the monitoring frequency to once per month for that stack. Anytime the monthly visible emissions inspections show visible emissions, or when requested by DEQ, the monitoring frequency shall be increased to once per week for that stack.

The permittee shall maintain a stack observation log for the stack to demonstrate compliance. The logs shall include the date and time of the observations, the name of the observer, whether or not there were visible emissions, the results of all VEEs, and any necessary corrective action. If the picking process has not been operated during the week, it shall be noted in the log book and that a visual observation was not required. (9 VAC 5-80-110 E)

# XII. Dissolvers EU-13A-1, EU-14A-1 to EU-14A-4, EU-14A-17, and U-14A-19, and Dryer EU-14A-10

### A. Limitations

1. Visible emissions from the dissolvers stack (VS-14A-1) shall not exceed 20% opacity except during one six-minute period in any one hour in which visible emissions shall not exceed 30% opacity when dissolver equipment EU-14A-17 and EU-14A-19 is operating.

(9 VAC 5-50-80 and 9 VAC 5-80-110)

2. Visible emissions from the dissolvers stack (VS-14A-1) shall not exceed 20% opacity except during one six-minute period in any one hour in which visible emissions shall not exceed 60% opacity when dissolver equipment EU-13A-1, EU-14A-1 to EU-14A-4, and dryer EU-14A-10 is operating. (9 VAC 5-40-80 and 9 VAC 5-80-110)

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# **B.** Periodic Monitoring

At least one time per week an observation of the presence of visible emissions from the dissolvers exhaust stack (VS-14A-1) shall be made. The presence of visible emissions shall require the permittee to:

- 1. take timely corrective action such that the dissolvers, with visible emissions, resumes operation with no visible emissions, or,
- 2. conduct a visible emission evaluation (VEE) on the dissolvers stack (VS-1A-1), with visible emissions, in accordance with EPA Method 9 (reference 40 CFR 60, Appendix A) for a minimum of six (6) minutes, to assure visible emissions from the are 20 percent opacity or less. If any of the observations exceed the opacity limitation of 20%, the observation period shall continue until a total of sixty (60) minutes of observation have been completed. Timely corrective action shall be taken, if necessary, such that the dissolvers resume operation within the 20% opacity limit.
- 3. If visible emissions inspections conducted during twelve (12) consecutive weeks show no visible emissions for a particular stack, the permittee may reduce the monitoring frequency to once per month for that stack. Anytime the monthly visible emissions inspections show visible emissions, or when requested by DEQ, the monitoring frequency shall be increased to once per week for that stack.

The permittee shall maintain a stack observation log for the stack to demonstrate compliance. The logs shall include the date and time of the observations, the name of the observer, whether or not there were visible emissions, the results of all VEEs, and any necessary corrective action. If the dissolvers have not been operated during the week, it shall be noted in the log book and that a visual observation was not required. (9 VAC 5-80-110 E)

# C. Recordkeeping

The permittee shall maintain records of all emission data and operating parameters necessary to demonstrate compliance with this permit. The content and format of such records shall be arranged with the South Central Regional Office. These records shall include, but are not limited to:

- 1. the monthly and yearly amount of uranium processed and emission equations, sufficient to calculate nitrogen dioxide and HF emissions. Yearly nitrogen dioxide and HF emissions shall be calculated monthly as the sum of each consecutive 12 month period.
- 2. Results of the weekly visual observation of the dissolvers stack (VS-14A-1) as specified in Condition XII.B. of this section, along with any corrective actions.

These records shall be available on site for inspection by the DEQ and shall be current for the most recent five (5) years. (9 VAC 5-80-110)

# XIII. ThermoCraft Vertical Tube Furnaces – EU-12A-3A and EU-12A-3B

### A. Limitations

- 1. Hydrogen chloride emissions from the vertical tube furnaces (EU-12A-3A and EU-12A-3B) shall be controlled by a packed column scrubber (PC-13A-5) followed by a dry adsorber (PC-13A-12). The scrubber (PC-13A-5) and adsorber (PC-13A-12) shall be provided with adequate access for inspection and shall be in operation when the vertical tube furnaces are operating.
  - (9 VAC 5-80-10 and Condition 3 of 09/23/2002 Permit)
- 2. Visible emissions from the furnaces (EU-12A-3A and EU-12A-3B) shall not exceed 5 percent opacity as determined by EPA Method 9 (reference 40 CFR 60, Appendix A).
  - (9 VAC 5-80-10 and Condition 5 of 09/23/2002 Permit)

## **B.** Monitoring

- 1. The scrubber (PC-13A-5) shall be equipped with devices to continuously measure the scrubber liquid flow rate and the differential pressure drop across scrubber. Each monitoring device shall be installed, maintained, calibrated and operated in accordance with approved procedures which shall include, as a minimum, the manufacturer's written requirements or recommendations. Each monitoring device shall be provided with adequate access for inspection and shall be in operation when the vertical tube furnaces are operating.
  - (9 VAC 5-80-10 and Condition 4 of 09/23/2002 Permit)
- 2. At least one time per week an observation of the presence of visible emissions from the vertical tube furnaces (EU-12A-3A and EU-12A-3B) stack (VS-14A-3) shall be made. The presence of visible emissions shall require the permittee to:
  - a. take timely corrective action such that the vertical tube furnaces (EU-12A-3A and EU-12A-3B) resume operation with no visible emissions, or,

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b. conduct a visible emission evaluation (VEE) on vertical tube furnaces (EU-12A-3A and EU-12A-3B) stack, (VS-14A-3) in accordance with EPA Method 9 (reference 40 CFR 60, Appendix A) for a minimum of six (6) minutes, to assure visible emissions from the vertical tube furnaces (EU-12A-3A and EU-12A-3B) are 5 percent opacity or less. If any of the observations exceed the opacity limitation of 5%, the observation period shall continue until a total of sixty (60) minutes of observation have been completed. Timely corrective action shall be taken, if necessary, such that the vertical tube furnaces (EU-12A-3A and EU-12A-3B) resume operation within the 5% opacity limit.

c. If visible emissions inspections conducted during twelve (12) consecutive weeks show no visible emissions for a particular stack, the permittee may reduce the monitoring frequency to once per month for that stack. Anytime the monthly visible emissions inspections show visible emissions, or when requested by DEQ, the monitoring frequency shall be increased to once per week for that stack.

The permittee shall maintain a stack observation log for the stack to demonstrate compliance. The logs shall include the date and time of the observations, the name of the observer, whether or not there were visible emissions, the results of all VEEs, and any necessary corrective action. If the vertical tube furnaces (EU-12A-3A and EU-12A-3B) have not been operated during the week, it shall be noted in the log book and that a visual observation was not required. (9 VAC 5-80-110 E)

# C. Recordkeeping

The permittee shall maintain records of emission data and operating parameters as necessary to demonstrate compliance with this permit. The content and format of such records shall be arranged with the South Central Regional Office. These records shall include, but are not limited to the yearly throughput of chlorine through the furnaces, calculated monthly as the sum of each consecutive 12 month period. These records shall be available for inspection by the DEQ and shall be current for the most recent five years. (9 VAC 5-80-10 and Condition 6 of 09/23/2002 Permit)

# **XIV. Facility Wide Conditions**

# A. Existing source standard for visible emissions

Unless otherwise specified in this part, no owner or other person shall cause or permit to be discharged into the atmosphere from any affected facility (constructed, modified or relocated prior to March 17, 1972) any visible emissions which exhibit greater than 20% opacity, except for one six-minute period in any one hour of not more than 60% opacity as determined by EPA Method 9 (reference 40 CFR 60, Appendix A). Failure to meet the requirements of this section because of the presence of water vapor shall not be a violation of this section.

(9 VAC 5-40-80 and 9 VAC 5-80-110)

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### B. New source standard for visible emissions

Unless otherwise specified in this part, on or after the date on which the performance test required to be conducted by 9 VAC 5-50-30 is completed, no owner or other person shall cause or permit to be discharged into the atmosphere from any affected facility (constructed, modified or relocated after March 17, 1972) any visible emissions which exhibit greater than 20% opacity, except for one six-minute period in any one hour of not more than 30% opacity as determined by EPA Method 9 (reference 40 CFR 60, Appendix A). Failure to meet the requirements of this section because of the presence of water vapor shall not be a violation of this section. This condition applies at all times except during startup, shut down, and malfunction.

(9 VAC 5-50-80 and 9 VAC 5-80-110)

# XV. Permit Shield & Inapplicable Requirements

Compliance with the provisions of this permit shall be deemed compliance with all applicable requirements in effect as of the permit issuance date as identified in this permit. This permit shield covers only those applicable requirements covered by terms and conditions in this permit. Nothing in this permit shield shall alter the provisions of §303 of the federal Clean Air Act, including the authority of the administrator under that section, the liability of the owner for any violation of applicable requirements prior to or at the time of permit issuance, or the ability to obtain information by the administrator pursuant to (i) §114 of the federal Clean Air Act, (ii) the Board pursuant to §10.1-1314 or §10.1-1315 of the Virginia Air Pollution Control Law or (iii) the Department pursuant to §10.1-1307.3 of the Virginia Air Pollution Control Law. (9 VAC 5-80-140)

# XVI. General Conditions

# A. Federal Enforceability

All terms and conditions in this permit are enforceable by the administrator and citizens under the federal Clean Air Act, except those that have been designated as only stateenforceable.

(9 VAC 5-80-110 N)

## **B.** Permit Expiration

This permit has a fixed term of five years. The expiration date shall be the date five years from the date of issuance. Unless the owner submits a timely and complete application for renewal to the Department consistent with the requirements of 9 VAC 5-80-80, the right of the facility to operate shall be terminated upon permit expiration.

1. The owner shall submit an application for renewal at least six months but no earlier than eighteen months prior to the date of permit expiration.

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2. If an applicant submits a timely and complete application for an initial permit or renewal under this section, the failure of the source to have a permit or the operation of the source without a permit shall not be a violation of Article 1, Part II of 9 VAC 5 Chapter 80, until the Board takes final action on the application under 9 VAC 5-80-150.

- 3. No source shall operate after the time that it is required to submit a timely and complete application under subsections C and D of 9 VAC 5-80-80 for a renewal permit, except in compliance with a permit issued under Article 1, Part II of 9 VAC 5 Chapter 80.
- 4. If an applicant submits a timely and complete application under section 9 VAC 5-80-80 for a permit renewal but the Board fails to issue or deny the renewal permit before the end of the term of the previous permit, (i) the previous permit shall not expire until the renewal permit has been issued or denied and (ii) all the terms and conditions of the previous permit, including any permit shield granted pursuant to 9 VAC 5-80-140, shall remain in effect from the date the application is determined to be complete until the renewal permit is issued or denied.
- 5. The protection under subsections F 1 and F 5 (ii) of section 9 VAC 5-80-80 F shall cease to apply if, subsequent to the completeness determination made pursuant section 9 VAC 5-80-80 D, the applicant fails to submit by the deadline specified in writing by the Board any additional information identified as being needed to process the application.

(9 VAC 5-80-80 B, C and F, 9 VAC 5-80-110 D and 9 VAC 5-80-170 B)

### C. Recordkeeping and Reporting

- 1. All records of monitoring information maintained to demonstrate compliance with the terms and conditions of this permit shall contain, where applicable, the following:
  - a. The date, place as defined in the permit, and time of sampling or measurements.
  - b. The date(s) analyses were performed.
  - c. The company or entity that performed the analyses.
  - d. The analytical techniques or methods used.
  - e. The results of such analyses.
  - f. The operating conditions existing at the time of sampling or measurement.

(9 VAC 5-80-110 F)

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2. Records of all monitoring data and support information shall be retained for at least five years from the date of the monitoring sample, measurement, report, or application. Support information includes all calibration and maintenance records and all original strip-chart recordings for continuous monitoring instrumentation, and copies of all reports required by the permit. (9 VAC 5-80-110 F)

- 3. The permittee shall submit the results of monitoring contained in any applicable requirement to DEQ no later than March 1 and September 1 of each calendar year. This report must be signed by a responsible official, consistent with 9 VAC 5-80-80 G. and shall include:
  - a. The time period included in the report. The time periods to be addressed are January 1 to June 30 and July 1 to December 31.
  - b. All deviations from permit requirements. For purposes of this permit, deviations include, but are not limited to:
    - (1) Exceedance of emissions limitations or operational restrictions;
    - (2) Excursions from control device operating parameter requirements, as documented by continuous emission monitoring, periodic monitoring, or compliance assurance monitoring which indicates an exceedance of emission limitations or operational restrictions; or,
    - (3) Failure to meet monitoring, recordkeeping, or reporting requirements contained in this permit.
  - c. If there were no deviations from permit conditions during the time period, the permittee shall include a statement in the report that "no deviations from permit requirements occurred during this semi-annual reporting period."

(9 VAC 5-80-110 F)

# **D.** Annual Compliance Certification

Exclusive of any reporting required to assure compliance with the terms and conditions of this permit or as part of a schedule of compliance contained in this permit, the permittee shall submit to EPA and DEQ no later than March 1 each calendar year a certification of compliance with all terms and conditions of this permit including emission limitation standards or work practices. The compliance certification shall comply with such additional requirements that may be specified pursuant to §114(a)(3) and §504(b) of the federal Clean Air Act. This certification shall be signed by a responsible official, consistent with 9 VAC 5-80-80 G, and shall include:

1. The time period included in the certification. The time period to be addressed is January 1 to December 31.

- 2. The identification of each term or condition of the permit that is the basis of the certification.
- 3. The compliance status.
- 4. Whether compliance was continuous or intermittent, and if not continuous, documentation of each incident of non-compliance.
- 5. Consistent with subsection 9 VAC 5-80-110 E, the method or methods used for determining the compliance status of the source at the time of certification and over the reporting period.
- 6. Such other facts as the permit may require to determine the compliance status of the source.

One copy of the annual compliance certification shall be sent to EPA at the following address:

Clean Air Act Title V Compliance Certification (3AP00) U. S. Environmental Protection Agency, Region III 1650 Arch Street Philadelphia, PA 19103-2029.

(9 VAC 5-80-110 K.5)

# **E.** Permit Deviation Reporting

The permittee shall notify the Director, South Central Regional Office within four daytime business hours after discovery of any deviations from permit requirements which may cause excess emissions for more than one hour, including those attributable to upset conditions as may be defined in this permit. In addition, within 14 days of the discovery, the permittee shall provide a written statement explaining the problem, any corrective actions or preventative measures taken, and the estimated duration of the permit deviation. The occurrence should also be reported in the next semi-annual compliance monitoring report pursuant to General Condition XVI.C.3. of this permit. (9 VAC 5-80-110 F.2 and 9 VAC 5-80-250)

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# F. Failure/Malfunction Reporting

In the event that any affected facility or related air pollution control equipment fails or malfunctions in such a manner that may cause excess emissions for more than one hour, the owner shall, as soon as practicable but no later than four daytime business hours after the malfunction is discovered, notify the Director, South Central Regional Office by facsimile transmission, telephone or telegraph of such failure or malfunction and shall within 14 days of discovery provide a written statement giving all pertinent facts, including the estimated duration of the breakdown. Owners subject to the requirements of 9 VAC 5-40-50 C and 9 VAC 5-50-50 C are not required to provide the written statement prescribed in this paragraph for facilities subject to the monitoring requirements of 9 VAC 5-40-40 and 9 VAC 5-50-40. When the condition causing the failure or malfunction has been corrected and the equipment is again in operation, the owner shall notify the Director, South Central Regional Office. (9 VAC 5-20-180 C)

# G. Severability

The terms of this permit are severable. If any condition, requirement or portion of the permit is held invalid or inapplicable under any circumstance, such invalidity or inapplicability shall not affect or impair the remaining conditions, requirements, or portions of the permit.

(9 VAC 5-80-110 G.1)

# H. Duty to Comply

The permittee shall comply with all terms and conditions of this permit. Any permit noncompliance constitutes a violation of the federal Clean Air Act or the Virginia Air Pollution Control Law or both and is grounds for enforcement action; for permit termination, revocation and reissuance, or modification; or, for denial of a permit renewal application.

(9 VAC 5-80-110 G.2)

# I. Need to Halt or Reduce Activity not a Defense

It shall not be a defense for a permittee in an enforcement action that it would have been necessary to halt or reduce the permitted activity in order to maintain compliance with the conditions of this permit.

(9 VAC 5-80-110 G.3)

### J. Permit Modification

A physical change in, or change in the method of operation of, this stationary source may be subject to permitting under State Regulations 9 VAC 5-80-50, 9 VAC 5-80-1100, 9 VAC 5-80-1790, or 9 VAC 5-80-2000 and may require a permit modification and/or revisions except as may be authorized in any approved alternative operating scenarios. (9 VAC 5-80-190 and 9 VAC 5-80-260)

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## **K.** Property Rights

The permit does not convey any property rights of any sort, or any exclusive privilege. (9 VAC 5-80-110 G.5)

# L. Duty to Submit Information

- 1. The permittee shall furnish to the Board, within a reasonable time, any information that the Board may request in writing to determine whether cause exists for modifying, revoking and reissuing, or terminating the permit or to determine compliance with the permit. Upon request, the permittee shall also furnish to the Board copies of records required to be kept by the permit and, for information claimed to be confidential, the permittee shall furnish such records to the Board along with a claim of confidentiality.
  - (9 VAC 5-80-110 G.6)
- Any document (including reports) required in a permit condition to be submitted to the Board shall contain a certification by a responsible official that meets the requirements of 9 VAC 5-80-80 G.
   (9 VAC 5-80-110 K.1)

# M. Duty to Pay Permit Fees

The owner of any source for which a permit under 9 VAC 5-80-50 through 9 VAC 5-80-300 was issued shall pay permit fees consistent with the requirements of 9 VAC 5-80-310 through 9 VAC 5-80-350. The actual emissions covered by the permit program fees for the preceding year shall be calculated by the owner and submitted to the Department by April 15 of each year. The calculations and final amount of emissions are subject to verification and final determination by the Department.

(9 VAC 5-80-110 H and 9 VAC 5-80-340 C)

# N. Fugitive Dust Emission Standards

During the operation of a stationary source or any other building, structure, facility, or installation, no owner or other person shall cause or permit any materials or property to be handled, transported, stored, used, constructed, altered, repaired, or demolished without taking reasonable precautions to prevent particulate matter from becoming airborne. Such reasonable precautions may include, but are not limited to, the following:

- 1. Use, where possible, of water or chemicals for control of dust in the demolition of existing buildings or structures, construction operations, the grading of roads, or the clearing of land;
- 2. Application of asphalt, water, or suitable chemicals on dirt roads, materials stockpiles, and other surfaces which may create airborne dust; the paving of roadways and the maintaining of them in a clean condition;

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3. Installation and use of hoods, fans, and fabric filters to enclose and vent the handling of dusty material. Adequate containment methods shall be employed during sandblasting or other similar operations:

- 4. Open equipment for conveying or transporting material likely to create objectionable air pollution when airborne shall be covered or treated in an equally effective manner at all times when in motion; and,
- 5. The prompt removal of spilled or tracked dirt or other materials from paved streets and of dried sediments resulting from soil erosion.

(9 VAC 5-40-90 and 9 VAC 5-50-90)

# O. Startup, Shutdown, and Malfunction

At all times, including periods of startup, shutdown, soot blowing, and malfunction, owners shall, to the extent practicable, maintain and operate any affected facility including associated air pollution control equipment in a manner consistent with air pollution control practices for minimizing emissions. Determination of whether acceptable operating and maintenance procedures are being used will be based on information available to the Board, which may include, but is not limited to, monitoring results, opacity observations, review of operating and maintenance procedures, and inspection of the source.

(9 VAC 5-50-20 E)

# P. Alternative Operating Scenarios

Contemporaneously with making a change between reasonably anticipated operating scenarios identified in this permit, the permittee shall record in a log at the permitted facility a record of the scenario under which it is operating. The permit shield described in 9 VAC 5-80-140 shall extend to all terms and conditions under each such operating scenario. The terms and conditions of each such alternative scenario shall meet all applicable requirements including the requirements of 9 VAC 5 Chapter 80, Article 1. (9 VAC 5-80-110 J)

# **Q.** Inspection and Entry Requirements

The permittee shall allow DEQ, upon presentation of credentials and other documents as may be required by law, to perform the following:

- 1. Enter upon the premises where the source is located or emissions-related activity is conducted, or where records must be kept under the terms and conditions of the permit.
- 2. Have access to and copy, at reasonable times, any records that must be kept under the terms and conditions of the permit.

3. Inspect at reasonable times any facilities, equipment (including monitoring and air pollution control equipment), practices, or operations regulated or required under the permit.

4. Sample or monitor at reasonable times substances or parameters for the purpose of assuring compliance with the permit or applicable requirements.

(9 VAC 5-80-110 K.2)

# **R.** Reopening For Cause

The permit shall be reopened by the Board if additional federal requirements become applicable to a major source with a remaining permit term of three years or more. Such reopening shall be completed no later than 18 months after promulgation of the applicable requirement. No such reopening is required if the effective date of the requirement is later than the date on which the permit is due to expire, unless the original permit or any of its terms and conditions has been extended pursuant to 9 VAC 5-80-80 F.

- 1. The permit shall be reopened if the Board or the administrator determines that the permit contains a material mistake or that inaccurate statements were made in establishing the emissions standards or other terms or conditions of the permit.
- 2. The permit shall be reopened if the administrator or the Board determines that the permit must be revised or revoked to assure compliance with the applicable requirements.
- 3. The permit shall not be reopened by the Board if additional applicable state requirements become applicable to a major source prior to the expiration date established under 9 VAC 5-80-110 D.

(9 VAC 5-80-110 L)

# S. Permit Availability

Within five days after receipt of the issued permit, the permittee shall maintain the permit on the premises for which the permit has been issued and shall make the permit immediately available to DEQ upon request. (9 VAC 5-80-150 E)

### T. Transfer of Permits

1. No person shall transfer a permit from one location to another, unless authorized under 9 VAC 5-80-130, or from one piece of equipment to another. (9 VAC 5-80-160)

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2. In the case of a transfer of ownership of a stationary source, the new owner shall comply with any current permit issued to the previous owner. The new owner shall notify the Board of the change in ownership within 30 days of the transfer and shall comply with the requirements of 9 VAC 5-80-200. (9 VAC 5-80-160)

3. In the case of a name change of a stationary source, the owner shall comply with any current permit issued under the previous source name. The owner shall notify the Board of the change in source name within 30 days of the name change and shall comply with the requirements of 9 VAC 5-80-200. (9 VAC 5-80-160)

### U. Malfunction as an Affirmative Defense

- 1. A malfunction constitutes an affirmative defense to an action brought for noncompliance with technology-based emission limitations if the requirements of paragraph 2 of this condition are met.
- 2. The affirmative defense of malfunction shall be demonstrated by the permittee through properly signed, contemporaneous operating logs, or other relevant evidence that show the following:
  - a. A malfunction occurred and the permittee can identify the cause or causes of the malfunction.
  - b. The permitted facility was at the time being properly operated.
  - c. During the period of the malfunction the permittee took all reasonable steps to minimize levels of emissions that exceeded the emission standards, or other requirements in the permit.
  - d. The permittee notified the board of the malfunction within two working days following the time when the emission limitations were exceeded due to the malfunction. This notification shall include a description of the malfunction, any steps taken to mitigate emissions, and corrective actions taken. The notification may be delivered either orally or in writing. The notification may be delivered by electronic mail, facsimile transmission, telephone, or any other method that allows the permittee to comply with the deadline. This notification fulfills the requirements of 9 VAC 5-80-110 F 2 b to report promptly deviations from permit requirements. This notification does not release the permittee from the malfunction reporting requirement under 9 VAC 5-20-180 C.
- 3. In any enforcement proceeding, the permittee seeking to establish the occurrence of a malfunction shall have the burden of proof.

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4. The provisions of this section are in addition to any malfunction, emergency or upset provision contained in any applicable requirement.

(9 VAC 5-80-250)

### V. Permit Revocation or Termination for Cause

A permit may be revoked or terminated prior to its expiration date if the owner knowingly makes material misstatements in the permit application or any amendments thereto or if the permittee violates, fails, neglects or refuses to comply with the terms or conditions of the permit, any applicable requirements, or the applicable provisions of 9 VAC 5 Chapter 80 Article 1. The Board may suspend, under such conditions and for such period of time as the Board may prescribe any permit for any of the grounds for revocation or termination or for any other violations of these regulations. (9 VAC 5-80-190 C and 9 VAC 5-80-260)

# W. Duty to Supplement or Correct Application

Any applicant who fails to submit any relevant facts or who has submitted incorrect information in a permit application shall, upon becoming aware of such failure or incorrect submittal, promptly submit such supplementary facts or corrections. An applicant shall also provide additional information as necessary to address any requirements that become applicable to the source after the date a complete application was filed but prior to release of a draft permit. (9 VAC 5-80-80 E)

# X. Stratospheric Ozone Protection

If the permittee handles or emits one or more Class I or II substances subject to a standard promulgated under or established by Title VI (Stratospheric Ozone Protection) of the federal Clean Air Act, the permittee shall comply with all applicable sections of 40 CFR Part 82, Subparts A to F. (40 CFR Part 82, Subparts A-F)

### Y. Accidental Release Prevention

If the permittee has more, or will have more than a threshold quantity of a regulated substance in a process, as determined by 40 CFR 68.115, the permittee shall comply with the requirements of 40 CFR Part 68. (40 CFR Part 68)

# **Z.** Changes to Permits for Emissions Trading

No permit revision shall be required under any federally approved economic incentives, marketable permits, emissions trading and other similar programs or processes for changes that are provided for in this permit. (9 VAC 5-80-110 I)

# **AA.** Emissions Trading

Where the trading of emissions increases and decreases within the permitted facility is to occur within the context of this permit and to the extent that the regulations provide for trading such increases and decreases without a case-by-case approval of each emissions trade:

- 1. All terms and conditions required under 9 VAC 5-80-110, except subsection N, shall be included to determine compliance.
- 2. The permit shield described in 9 VAC 5-80-140 shall extend to all terms and conditions that allow such increases and decreases in emissions.
- 3. The owner shall meet all applicable requirements including the requirements of 9 VAC 5-80-50 through 9 VAC 5-80-300.

(9 VAC 5-80-110 I)